

Supporting Information S1. The benchmark dataset contains 138 anticancer peptides and 206 non-anticancer peptides (see Eq.1).

I. 138 anticancer peptides

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>ACP_2

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>ACP_3

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>ACP_4

GLFDIVKKVVGALGSL

>ACP_5

GLFDIVKKVVGTLAGL

>ACP_6

GLFDIAKKVIGVIGSL

>ACP_7

GLFDIVKKIAGHIAGSI

>ACP_8

GLFDIVKKIAGHIVSSI

>ACP_9

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>ACP_10

HGVSGHGQHGVBHG

>ACP_11

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>ACP_12

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>ACP_13

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>ACP_14

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>ACP_15

GIGGKILSGLKTALKGAAKELASTYLH

>ACP_16

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>ACP_17

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>ACP_18

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>ACP_22
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>ACP_27
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>ACP_28
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>ACP_29
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>ACP_41

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GRENYHGCTTHWGFTLC
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II. 206 non-anticancer peptides

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>non-ACP_4
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